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PATENT
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IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicants: THOMAS JACKSON, et al.
Appl'n. No.: 09/963,350 Group: 2121
Filed: September 26, 2001 Examiner: Unassigned
For: "FEED FORWARD SIGMA DELTA INTERPOLATOR FOR USE IN
A FRACTIONAL-N-SYNTHESIZER"

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INFORMATION DISCLOSURE STATEMENT

(SUBMISSION AFTER FILING OF AN APPLICATION
BUT BEFORE FINAL REJECTION OR NOTICE OF ALLOWANCE
OR CONCURRENTLY WITH A RULE 53(d) CPA APPLICATION)

Assistant Commissioner for Patents
Washington, DC 20231

September 24, 2002

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant hereby submits an Information
Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the
Office are listed on PTO-1449, attached hereto.

II. COPIES (check at least one box)

- a. X Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- b. ___ Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

- a. _ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**
A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows: PCT WO00/02386. This document is listed in the international search report.
- b. X **DOCUMENTS IN THE ENGLISH LANGUAGE**
All of the patents, publications or other information are in the English language. No statement of relevancy is required.
- c. _ **ENGLISH LANGUAGE SEARCH REPORT**
An English language version of the search report or action which indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).
- d. _ **OTHER**
The following additional information is provided for the Examiner's consideration.

IV. FEES

X THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b):
(check one box)

- a. within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required.
- b. within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required.
- c. X before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) below, or, if no statement has been made, charge our deposit account in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):
(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)(1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)(2)).

- a. No statement; therefore, a fee in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p).
- or
- b. See the statement below. No fee is required.

VI. STATEMENT UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby states that

- a. ☒ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.
- c. ☐ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VII. PAYMENT OF FEES (check one box)


- ☐ A check in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p) is enclosed for the above-identified fee.
- ☐ Please charge Deposit Account No. 02-2448 in the amount required by 37 C.F.R. § 1.17(p) for the above-indicated fee. A triplicate copy of this paper is attached.
- ☒ No fee is required.

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If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-0383

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 50-0383 for any additional fees required under 37 CFR §1.16 or under §1.17; particularly, extension of time fees.

Respectfully submitted,

By:  09-23-02
John T. Whelan
Reg. No. 32,448

Hughes Electronics Corp.
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(301) 428-7172

Enclosures: ☒ PTO-1449
 ☒ References
 ☒ International Search Report
 — Fee
 — Other:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, DC 20231 on: September 24, 2002.


Ginger Fogle

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)DATE SUBMITTED TO PTO: September 10, 2002

ATTY DOCKET NO.

PD- 200392

APPLICATION NO.

09/963,350

APPLICANTS

Thomas Jackson, et al

FILING DATE

September 26, 2001

GROUP

2121

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

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OCT 04 2002
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EXAMINER

DATE CONSIDERED

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS
		0 429 217 A2	07-11-90	European			
		0 438 867 A2	27-11-90	European			
		EP 0 788 237 A1	6-8-97	European			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

		MÜCAHİT KOZAK, İZZET KALE, ASSAAD BORJAK, AND TAOUFİK BOURDI, "A Pipelined All-Digital Delta-Sigma Modulator For Fractional-N Frequency Synthesis", University of Westminster, Department of Electronic Systems, Applied DSP and VLSI Research Group, London, W1M 8JS, England, UK and Nokia Networks, Camberly, Surrey GU15 3BW, England, UK, XP-002210566, 2000, pages 1153- 1557.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.